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Bull Evaluation Centre Report

202221 Waydamar 2022

(End of Test)

Test Date: **05 Mar 2022** Days on Test: **112**

Centre Manager: **DAVID MILLINER**

Start of Test Date: **13 Nov 2021**

Phone #: **519-923-9188**

End of Test Date: **05 Mar 2022**

E Mail: **milliner.dg@gmail.com**

Pick Up Date:

Address: **225641 SOUTHGATE RD 22,R.R. #1 , DUNDALK , ON , N0C 1B0**

Ration Statement:

- Note:**
- 1. Check the information on your BULL(s) to ensure the pedigree, birth date, tattoo, and weaning data is complete and accurate.**
 - 2. For best results clients need to submit complete herd data with complete weaning weights on all their calves to bioTrack, our Herd Evaluation Service. Calves with incomplete herd data will not receive genetic evaluations nor BIO Economic Indexes. If no data is submitted to BIO, then the calves in the bull evaluation centre will be regarded as UNOFFICIAL. Unofficial calves will not receive genetic evaluations, BIO Economic Indexes nor certificates and may not eligible for awards that are offered from time to time.**
 - 3. If you have questions on data submission, please contact our office.**

A Guide to BIO's Bull and Heifer Evaluation Reports and BIO's Genetic Evaluations

Report Features

- Objectively Compare all animals using our across breed comparisons -ABCs - Allows you to compare all the bulls in the group for their genetics, regardless of their breed. Bulls are listed on the report by the tag number.
- Quickly know where an animal ranks for a trait using the percentile ranking. Our percentile rankings range from 1 (lowest) to 99 (highest) tells you how an animal ranks for the trait you're looking at. All animals are ranked for each trait! The rankings compare all animals evaluated over the past 3 years for that trait.
 - Across breed Percentiles (%AB) allow you to compare purebred, crossbred, and composite animals across breeds.
 - Within breed Percentiles (%WB) allow you to compare purebred animals within its breed.
 - Example: A bull or heifer that has a percentile of 99 (99th percentile) is in the top 1% of all animals evaluated for that trait or index; a bull in the 80th percentile is in the top 20%, etc.
- Most current genetic evaluations - The Herd Recording traits (CE, BW, WG, MILK) are updated on the 84-day and End-of-test reports, to reflect the added information of weights taken on test. The End-of-test evaluations use the animal's on-test performance and all related performance data in the database to calculate the ABC and are therefore the most current evaluations in the industry.

Features of BIO's Genetic Evaluations (ABCs) and Economic Indexes

- Genetic Evaluations - the most accurate method to express genetic ability of an animal. They are adjusted for environment and can be used to compare animals across herds and evaluation centres.
- ABC - Across Breed EPD or Comparison - Estimate of how future progeny of an animal are expected to perform in each of the traits. Comparisons can be made within breeds and across breeds. For example, a bull or heifer with a Yearling Gain ABC of +85 will produce progeny that are on average 50 pounds heavier than progeny from a bull with a Yearling Gain ABC of +35.
- Accuracy - Measure of the amount of information used to calculate the ABC. Ranges from 1 (least) to 99 (most). Evaluations based on pedigree information only are noted as 'PE' (pedigree estimate).
- BIO\$: This is an index that considers several traits in determining better bulls when mated to average cows and is aiming at efficient lean meat production for a market focused on AA carcasses between 775 and 900 pounds. Use the BIO\$ index to identify top prospect bulls and then look at specific ABC's within that group for traits that you value in your operation.
- ABCs (Across Breed EPDs) for all animals evaluated by BIO are on a fixed base. The base is a multi-breed average of animals born 1995-1998:

Trait	CE	BW	WG	MILK	PWG	YG	FAT	REA	%IMF	SC	BIO\$
Base	0	0	+30	+15	+20	+50	0	0	0	0	+2000

Report Definitions and Legend

Herd Measurements (BIO believes in Whole Herd Recording)

CE - Calving Ease - The ease or difficulty with which the animal was born. The categories are unassisted (U), easy pull (E), hard pull (H), surgical (S) or malpresentation (M).

BW - Birth weight (lbs) of the animal.

AWW - Adjusted Weaning Weight (lbs) - The on-farm weaning weight of the animal adjusted to 200 days of age. Adjustments are made for age of dam and sex of calf.

WI - Weaning Index - Within-herd index based on adjusted weaning weight. Use to compare calves in the same pre-weaning management group. A minimum of five calves in a management group is required to receive an index. ET indicates an embryo transplant calf.

Test Evaluation Measurements (based on the animal's performance in the evaluation centre)

SOT - Start of Test Weight (lbs)

EOT - End of Test Weight (lbs)

ADG - Average Daily Gain (lbs/day) - The regressed average daily gain during the animal evaluation period. All monthly weighings are used in determining the adg.

WPDA - Weight Per Day of Age (lbs/day) - Weight taken at weigh period divided by days of age and includes birth weight.

HH - Hip Height (inches) - Height of the animal over the hip bones at EOT.

FRAME - Frame Score - A 1 to 10 scale calculated using hip height and age, according to Beef Improvement Federation guidelines.

FAT - Backfat (mm) - Measured ultrasonically between the 12th and 13th ribs (grading site) at the end of the test.

REA & AdjREA - Rib Eye Area (square inches) - Measured ultrasonically between the 12th and 13th ribs (grading site) at the end of the test. The AdjREA is adjusted to 365 days of age.

%IMF & Adj%IMF - Percent Intramuscular Fat (Marbling) - Measured ultrasonically between the 12th and 13th ribs (grading site) at the end of test. NR indicates the animal had too little %IMF to measure. Adj %IMF is adjusted to 365 days.

GRADE - %IMF expressed as marbling grade (A, AA or AAA) - PD indicates practically devoid, which is less than 1.86 %IMF. Animals near the border of a category are shown as a combination of the two categories (i.e. A-AA).

SC & AdjSC - Scrotal Circumference (cm) - End of test measure of scrotal circumference. Indication of the semen producing ability of the bull. 'ABN' indicates abnormal testicles (size, shape, injury) and no measurement is taken. AdjSC is adjusted Scrotal circumference and is adjusted to one year of age.

Genetic Evaluations - Across Breed EPDS (ABCs)

CE - Calving Ease ABC - is a genetic prediction of the increase (+) or decrease (-) in percent unassisted calvings if the bull is mated with heifers that are an average size and have average calving ability.

BW - Birth Weight ABC (lbs) - The effect the animal will have on the birth weight of their calves.

WG - Weaning Gain ABC (lbs) - The ability of the animal's calves to grow from birth to weaning.

MILK - Milk/Mothering ability ABC (lbs of calf at weaning) - The ability of a animal's daughters to provide their calves with milk and mothering ability.

PWG - Post-Weaning Gain ABC (lbs) - Indicates the ability of an animal's calves to grow from weaning to yearling.

YG - Yearling Gain ABC (lbs) - Indicates the ability of a animal's calves to grow from birth to yearling.

FAT - Backfat thickness ABC (mm) - The ability of a animal's progeny to deposit backfat (finishing ability), adjusted to a common age.

REA - Rib Eye Area ABC (square inches) - Predictor of the differences in progeny ribeye area (muscling), adjusted to a common age.

%IMF - Intramuscular Fat ABC (Marbling) - The ability of a animal's progeny to deposit marbling fat, adjusted to a common age.

SC - Scrotal Circumference ABC (cm) - Indicates the ability of a bull to transmit scrotal size to male progeny. It is a partial indicator of daughter's age at puberty.

Bull Evaluation EOT Report

202221 Waydamar 2022



Genetic Evaluations (10 Mar 2022)

Tag	008J	Pen		Tattoo		MWY 8J
Contact	DAVID MILLINER - WAYDAMAR FARMS					
HC/Breed	SIMMENTAL		519-923-9188			
Birthdate	01Jan2021	Colour				
SireSire	KUNTZ MARSHALL 12Y					
Sire	Kuntz Sheriff 8A					
Dam	WAYDAMAR BLK ALY 8F					
DamSire	OAKVIEW BREAKING BAD 11B					

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	43	38	71	89	5	18	19	52	39	68	8
ABC Acc	1 32	-4 52	47 45	33 28	8 48	55 47	-35 48	.08 43	.04 43	.92 62	2019
%wb	75	71	38	70	1	5	22	24	70	44	5

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	86	618	105		825	1265	3.83	2.96	50.5	5.0	4	13.6	12.3	1.89	1.61	PD-A	40.0	37.7

Tag	027J	Pen		Tattoo		JEMF 27J
Contact	JONATHON E. MARTIN					
HC/Breed	P SIMMENTAL		519-379-1795			
Birthdate	20Jan2021	Colour	Black			
SireSire	ELLINGSON LEGACY M229 OLIE					
Sire	TNT R77'S LEGACY Z330					
Dam	WAYDAMAR BLK GERILYNN 27G					
DamSire	RICHWOOD ADMIRAL 26A					

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	42	32	98	51	99	99	38	85	42	70	
ABC Acc	1 PE	.1 PE	69 PE	24 PE	69 49	138 PE	-05 52	.49 46	.05 46	.95 63	N/R
%wb	74	63	94	22	99	99	62	86	76	46	

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	85	747			940	1550	5.63	3.79	52.5	6.2	8	14.6	13.5	1.88	1.68	PD-A	41.0	39.4

Tag	033J	Pen		Tattoo		EM 33J
Contact	EMMERSON MARTIN					
HC/Breed	50% LIMOUSIN		855-246-2333			
Birthdate	12Jan2021	Colour				
SireSire						
Sire						
Dam	WAYDAMAR BLK FLIRT 66F					
DamSire	RICHWOOD ADMIRAL 26A					

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab		67	57		7	18	7	51	26	5	
ABC Acc		-2.5 PE	43 PE		12 40	55 PE	-60 45	.06 39	-.01 39	-.69 59	N/R
%wb											

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	84	574			785	1242	4.07	2.98	51.0	5.4	4	12.9	11.8	1.63	1.43	PD	37.0	35.1

Tag	035H	Pen		Tattoo		MWY 35H
Contact	DAVID MILLINER - WAYDAMAR FARMS					
HC/Breed	P SIMMENTAL		519-923-9188			
Birthdate	09Oct2020, Twin	Colour	Red			
SireSire	LRX THE GODFATHER 141Z					
Sire	OAKVIEW BREAKING BAD 11B					
Dam	WAYDAMAR B SUPERLADY 35B					
DamSire	MAPLEROSE SUPERMAN					

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	23	26	84	14	99	98	34	68	35	81	
ABC Acc	-1 PE	.7 PE	52 PE	16 PE	63 50	115 PE	-.13 PE	.26 PE	.02 PE	1.15 PE	N/R
%wb	42	52	60	2	99	94	51	59	58	61	

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	82	632			985	1595	5.36	3.12	53.5	5.8	7	15.4	12.3	1.92	1.37	PD-A	42.0	36.6

Tag	036J	Pen		Tattoo		MWY 36J
Contact	DAVID MILLINER - WAYDAMAR FARMS					
HC/Breed	SIMMENTAL		519-923-9188			
Birthdate	06Jan2021	Colour				
SireSire	LFE GOTHAM 819Y					
Sire	LFE THE RIDDLER 323B					
Dam	WAYDAMAR BLK CROCUS 34Z					
DamSire	MARYWOOD BLK MANHATTEN 81					

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	24	20	93	84	99	99	26	92	48	86	95
ABC Acc	-1 26	1.4 57	57 45	31 26	66 50	123 48	-.24 53	.65 47	.09 47	1.27 63	4982
%wb	45	40	77	61	99	96	34	94	90	69	93

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	95	603	103		875	1489	5.60	3.52	51.0	5.3	6	15.1	13.7	2.07	1.79	PD-A	42.0	39.9

Bull Evaluation EOT Report

202221 Waydamar 2022



Genetic Evaluations (10 Mar 2022)

Tag	Pen	Tattoo	MWY 44L
Contact	DAVID MILLINER - WAYDAMAR FARMS		
HC/Breed	SIMMENTAL		
Birthdate	07Jan2021	Colour	519-923-9188
SireSire	LRX THE GODFATHER 141Z		
Sire	OAKVIEW BREAKING BAD 11B		
Dam	WAYDAMAR RED DESIREE 44D		
DamSire	FGAF TOP CUT 114B		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	29	32	32	11	95	78	40	38	34	81	38
ABC Acc	0 ³³	.1 ⁵⁸	37 ⁴⁹	15 ¹⁹	51 ⁵⁰	88 ⁵⁰	-.01 ⁵¹	-.11 ⁴⁶	.02 ⁴⁶	1.16 ⁶³	3053
%wb	54	63	8	1	95	63	66	5	56	62	29

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	92	482	82		716	1305	5.22	3.09	50.5	5.1	6	11.7	10.7	1.49	1.29	PD	41.0	38.9

Tag	Pen	Tattoo	MWY 48J
Contact	DAVID MILLINER - WAYDAMAR FARMS		
HC/Breed	SIMMENTAL		
Birthdate	02Mar2021, Twin	Colour	519-923-9188
SireSire	R PLUS VENOM 4006B		
Sire	MRL PLAYMAKER 36G		
Dam	WAYDAMAR RED RACHEL 44Z		
DamSire	MARYWOOD RED MANHATTEN44P		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	24	20	98	59	68	93	53	71	52	78	67
ABC Acc	-1 ²¹	1.4 ⁵²	66 ⁴¹	26 ¹⁷	37 ⁴⁵	103 ⁴³	.35 ⁴⁸	.30 ⁴³	.13 ⁴³	1.10 ⁶⁰	3740
%wb	44	40	92	29	68	86	93	64	95	57	58

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	80	663	113		701	1246	4.79	3.39	49.5	5.2	8	13.7	13.6	2.28	2.26	PD-A	39.5	39.4

Tag	Pen	Tattoo	JEMF 51J
Contact	JONATHON E. MARTIN		
HC/Breed	P SIMMENTAL		
Birthdate	23Jan2021	Colour	519-379-1795
SireSire	ELLINGSON LEGACY M229 OLIE		
Sire	TNT R77'S LEGACY Z330		
Dam	WAYDAMAR BLK GENEEN 51G		
DamSire	RICHWOOD ADMIRAL 26A		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	39	32	98	43	99	99	19	94	35	54	N/R
ABC Acc	1 ^{PE}	.1 ^{PE}	67 ^{PE}	23 ^{PE}	75 ⁴⁹	141 ^{PE}	-.35 ⁵²	.68 ⁴⁶	.02 ⁴⁶	.73 ⁶³	N/R
%wb	71	63	92	15	99	99	23	95	59	28	

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	92	758			944	1586	5.84	3.91	51.5	5.7	6	15.9	14.8	1.67	1.50	PD	40.0	38.5

Tag	Pen	Tattoo	MWY 52J
Contact	DAVID MILLINER - WAYDAMAR FARMS		
HC/Breed	SIMMENTAL		
Birthdate	25Jan2021	Colour	519-923-9188
SireSire	LRX THE GODFATHER 141Z		
Sire	OAKVIEW BREAKING BAD 11B		
Dam	WAYDAMAR BLK DAKOTA 72D		
DamSire	RICHWOOD ADMIRAL 26A		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	35	44	67	20	99	96	54	61	41	45	84
ABC Acc	0 ³⁴	-.9 ⁵⁸	46 ⁴⁹	18 ¹⁷	63 ⁵⁰	109 ⁵⁰	.36 ⁵²	.17 ⁴⁶	.05 ⁴⁶	.61 ⁶³	4241
%wb	65	79	33	4	99	91	93	43	75	21	80

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	89	521	89		730	1328	5.38	3.29	49.5	4.8	9	13.0	12.2	1.62	1.46	PD	39.0	37.6

Tag	Pen	Tattoo	MWY 53J
Contact	DAVID MILLINER - WAYDAMAR FARMS		
HC/Breed	SIMMENTAL		
Birthdate	22Jan2021	Colour	519-923-9188
SireSire	LFE GOTHAM 819Y		
Sire	LFE THE RIDDLER 323B		
Dam	WAYDAMAR BLK DOMINIQUE83D		
DamSire	RICHWOOD ADMIRAL 26A		

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIO\$
%ab	39	38	77	88	94	90	45	64	46	57	72
ABC Acc	1 ²⁶	-.4 ⁵⁶	49 ⁴⁴	32 ²³	49 ⁴⁷	99 ⁴⁶	.10 ⁴⁹	.21 ⁴⁴	.07 ⁴⁴	.77 ⁶²	3881
%wb	71	71	48	69	94	81	77	51	84	31	65

	CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	89	553	94		775	1349	5.06	3.31	50.0	5.0	8	12.9	12.0	2.09	1.87	PD-A	40.0	38.5

Bull Evaluation EOT Report

202221 Waydamar 2022



Genetic Evaluations (10 Mar 2022)

Tag 062J Pen **Tattoo MWY 62J**
 Contact **DAVID MILLINER - WAYDAMAR FARMS**
 HC/Breed **SIMMENTAL** **519-923-9188**
 Birthdate **01Jan2021** Colour
 SireSire **LRX THE GODFATHER 141Z**
 Sire **OAKVIEW BREAKING BAD 11B**
 Dam **MWY 22A**
 DamSire **MAPLEROSE SUPERMAN**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS\$
%ab	30	35	88	32	87	90	39	72	47	83	71
ABC Acc	0 35	-2 59	54 50	21 18	44 51	98 51	-0.03 52	.31 47	.08 47	1.20 63	3859
%wb	55	68	67	9	87	80	65	65	87	65	64

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	94	626	107	920	1364	4.01	3.19	52.0	5.8	7	14.0	12.6	2.18	1.86	PD-A	41.5	39.2

Tag 096J Pen **Tattoo MWY 96J**
 Contact **DAVID MILLINER - WAYDAMAR FARMS**
 HC/Breed **SIMMENTAL** **519-923-9188**
 Birthdate **13Feb2021** Colour
 SireSire **LRX THE GODFATHER 141Z**
 Sire **OAKVIEW BREAKING BAD 11B**
 Dam **MRL MISS 7447E**
 DamSire **HART STATE OF WAR 056C**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS\$
%ab	41	43	65	11	98	93	43	62	52	67	77
ABC Acc	1 30	-8 54	46 45	14 19	56 49	102 47	.06 52	.18 46	.13 46	.91 63	4017
%wb	72	77	31	1	97	85	73	46	95	43	71

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	89	545	93	702	1281	5.31	3.33	50.0	5.2	6	13.7	13.2	2.12	2.01	PD-A	39.0	38.3

Tag 098J Pen **Tattoo MWY 98J**
 Contact **DAVID MILLINER - WAYDAMAR FARMS**
 HC/Breed **SIMMENTAL** **519-923-9188**
 Birthdate **24Mar2021** Colour
 SireSire **LRX THE GODFATHER 141Z**
 Sire **OAKVIEW BREAKING BAD 11B**
 Dam **MRL MISS 5396C**
 DamSire **SVS MILWAUKEE 53A**

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS\$
%ab	35	42	96	71	95	97	40	78	18	92	85
ABC Acc	0 28	-7 51	62 43	28 13	51 47	113 45	-0.01 50	.39 44	-0.05 44	1.46 62	4316
%wb	65	76	86	43	95	93	67	75	20	79	82

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	88	702	120	771	1325	4.92	3.83	51.0	6.3	5	13.8	14.3	1.01	1.07	PD	40.0	40.7

Bull Evaluation EOT Report

202221 Waydamar 2022

Unofficial



Genetic Evaluations (10 Mar 2022)

Tag	023J	Pen		Tattoo	MCRD 23J
Contact	DR. BOB MCFARLANE - MCROBDON SIMMENTALS				
HC/Breed	SIMMENTAL				855-246-2333
Birthdate	16Jan2021	Colour			
SireSire	HIDDEN H SWEET MEAT				
Sire	FGAF TOP CUT 114B				
Dam	McRobdon Roxanne 7C				
DamSire	SPRINGCREEK LOTTO 52Y				

	CE	BW	WG	Milk	PWG	YG	FAT	REA	%IMF	SC	BIOS\$
%ab	38	43	92	26							
ABC Acc	1 PE	-0.8 PE	57 PE	19 PE							N/R
%wb	70	77	75	6							

CE	BW	AWW	WI	SOT	EOT	ADG	WPDA	HH	Frame	Fat	REA	AdjREA	%Imf	Adj%Imf	Grade	SC	AdjSC
U	85	701		975	1415	3.93	3.43	53.5	6.7	9	14.7	13.5	1.56	1.38	PD	41.5	39.7



Breed Summary Averages

Breed	#	% U	BWT	AWW	SOT	28D	56D	84D	EOT	ADG	WPDA	Hip Height	Frame Score	Back Fat	REA	Adj REA	%IMF	Adj %IMF	Scrotal
SIMMENTAL	12	100	88	621	824	991	1168	1280	1390	5.08	3.39	51.0	5.4	7	14.0	12.9	1.85	1.65	40.4
CROSSBRED	1	100	84	574	785	895	1030	1120	1242	4.07	2.98	51.0	5.4	4	12.9	11.8	1.63	1.43	37.0
Group Averages	13	100	88	617	821	983	1157	1267	1379	5.00	3.36	51.0	5.4	6	13.9	12.8	1.83	1.63	40.2
SIMMENTAL	1	100	85	701	975	1030	1120	1251	1415	3.93	3.43	53.5	6.7	9	14.7	13.5	1.56	1.38	41.5

Note: Measurements from Unofficial Bulls are not included in the Group Averages above.

Provision and Use of Information Produced by BIO As part of the terms and conditions of Beef Improvement Ontario (BIO) Beef Evaluation Services, it is understood that information provided by BIO including, but not limited to, genetic and carcass evaluations are produced using the very best knowledge available and are pursuant to generally accepted industry standards. The raw data and pedigree used in calculations is provided by the client. The intent of the information provided by BIO is for comparative purposes only for both the animal consignor and buyer. This information is provided for the purpose of general guidance only to beef producers. The purchaser and/or user of this information agrees to hold Beef Improvement Ontario harmless for any losses or damages that may be incurred as a result of receipt of and/or reliance upon this general comparative information. This clause shall be a complete defense to any claim brought by the purchaser and/or user in relation to such services.